00270T "6588896D

Fig. 1
(Prior Art)

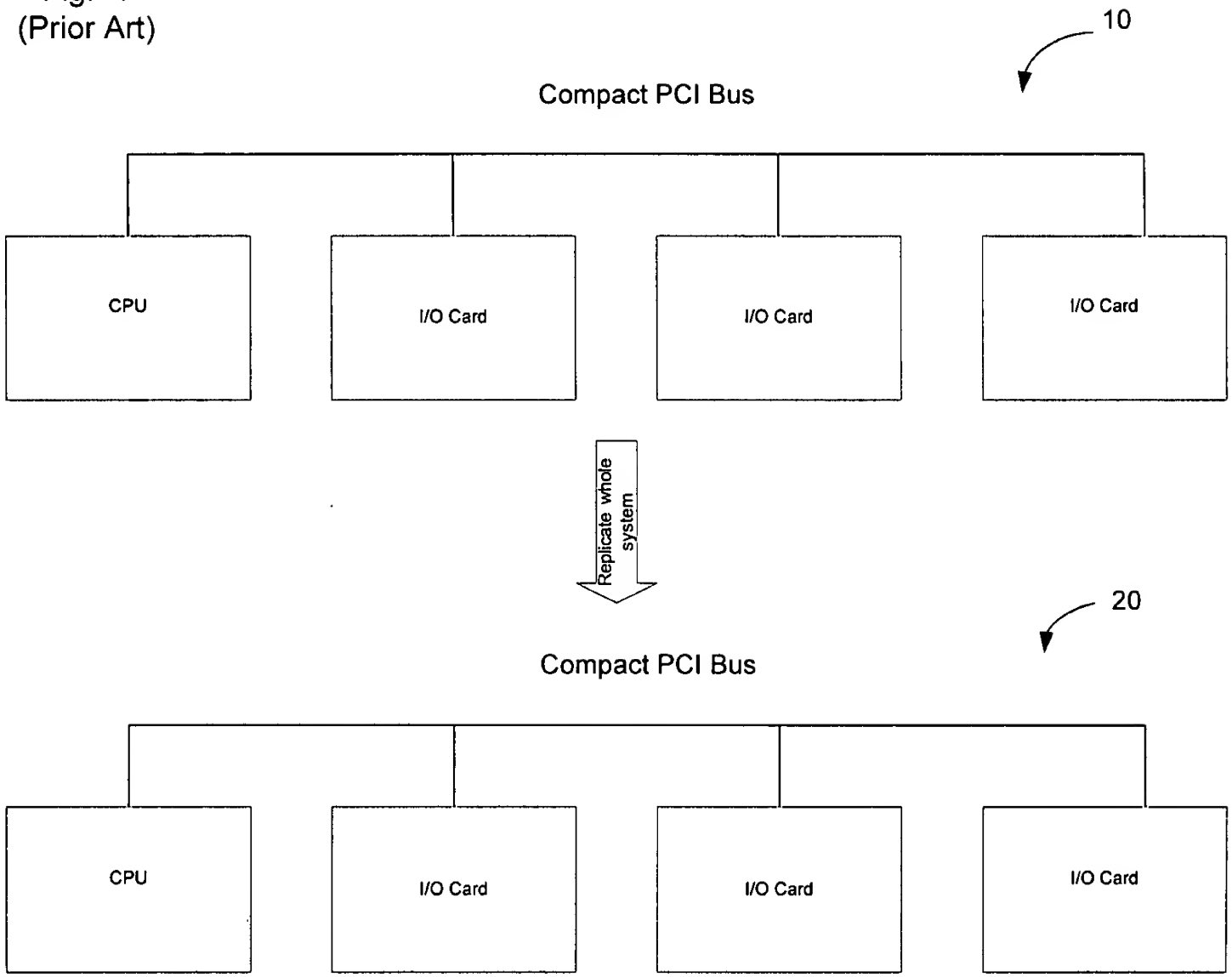
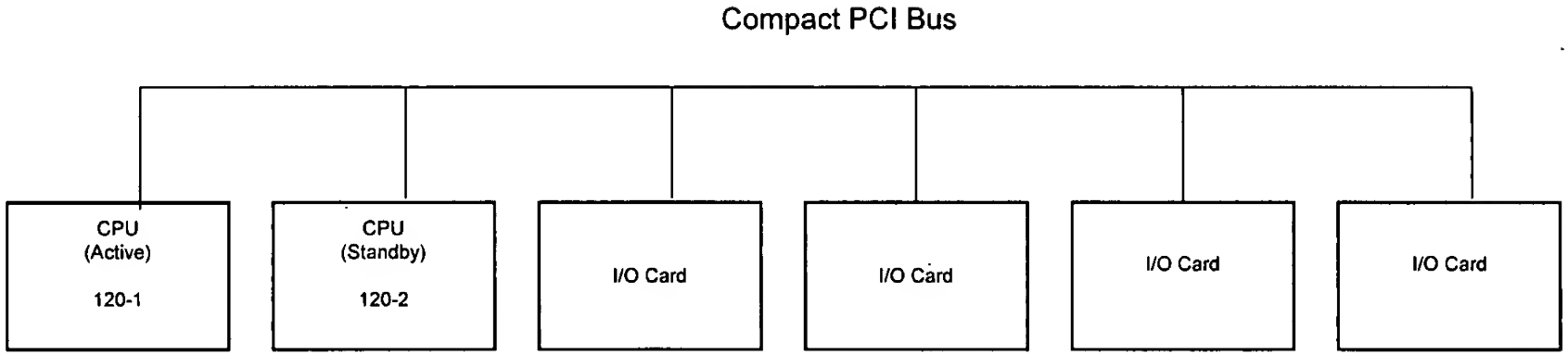


Fig. 2
(Prior Art)



007 OF 6588960

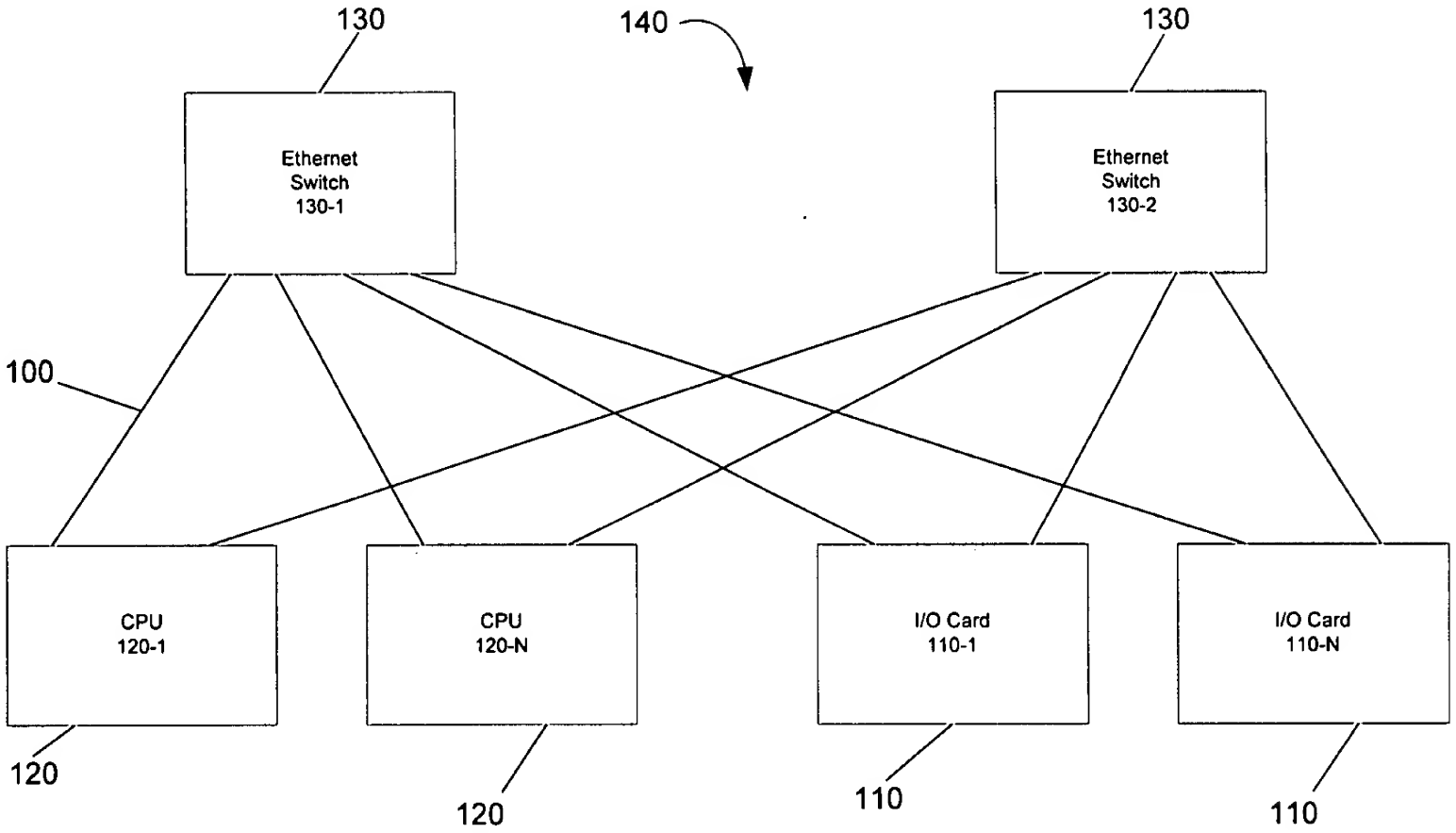


Fig. 3

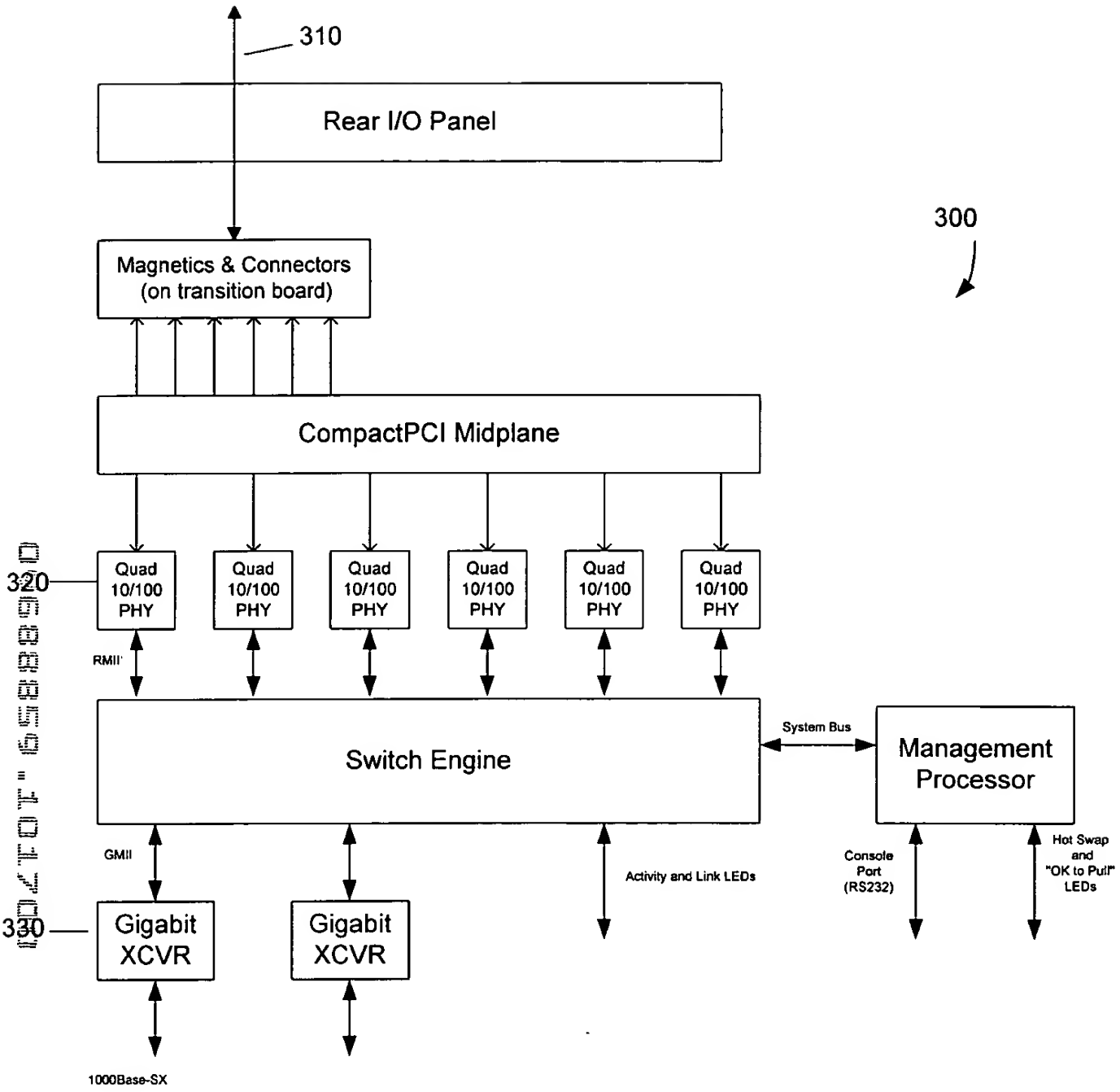

310
Rear I/O Panel
300
Magnetics & Connectors
(on transition board)
CompactPCI Midplane
320
Quad
10/100
PHY
Quad
10/100
PHY
Quad
10/100
PHY
Quad
10/100
PHY
Quad
10/100
PHY
Quad
10/100
PHY
RMII
Switch Engine
System Bus
Management
Processor
GMII
Activity and Link LEDs
Console
Port
(RS232)
Hot Swap
and
"OK to Pull"
LEDs
330
Gigabit
XCVR
Gigabit
XCVR
1000Base-SX

Fig. 4

Fig. 5

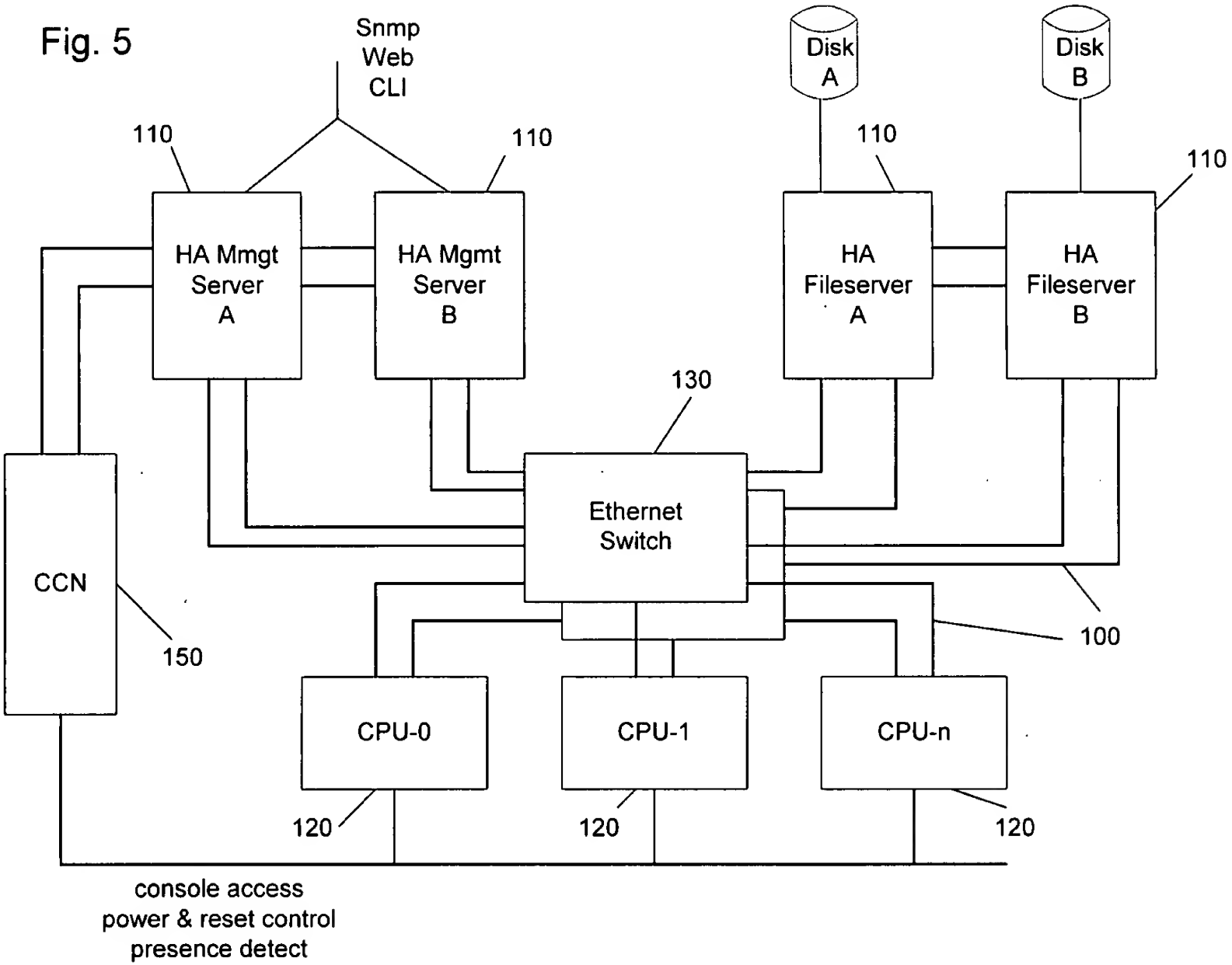
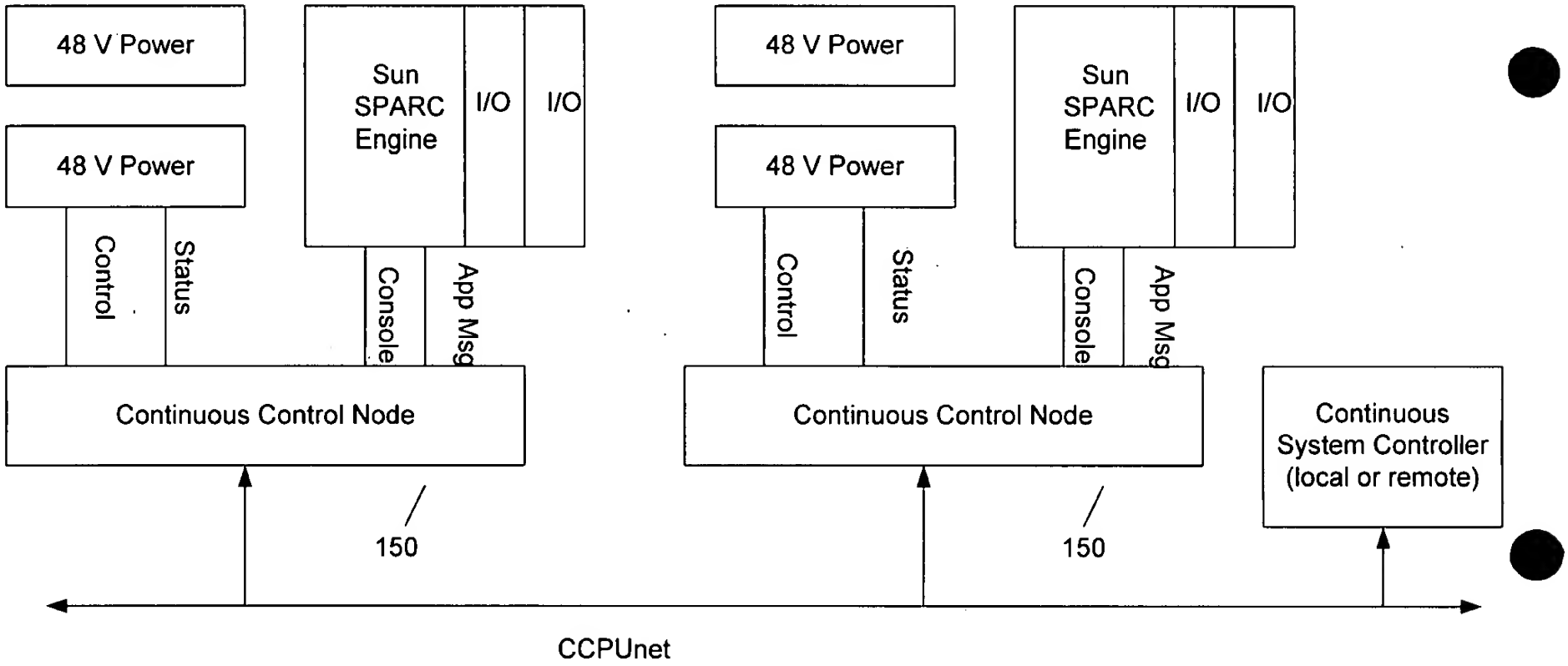

Snmp
Web
CLI
Disk
A
Disk
B
110
110
110
110
HA Mmgt
Server
A
HA Mgmt
Server
B
HA
Fileserver
A
HA
Fileserver
B
130
Ethernet
Switch
CCN
150
100
CPU-0
CPU-1
CPU-n
120
120
120
console access
power & reset control
presence detect

Fig. 6


48 V Power
48 V Power
Sun SPARC Engine
I/O
I/O
Control
Status
Console
App Msg
Continuous Control Node
150
48 V Power
48 V Power
Sun SPARC Engine
I/O
I/O
Control
Status
Console
App Msg
Continuous Control Node
150
Continuous System Controller (local or remote)
CCPUnet

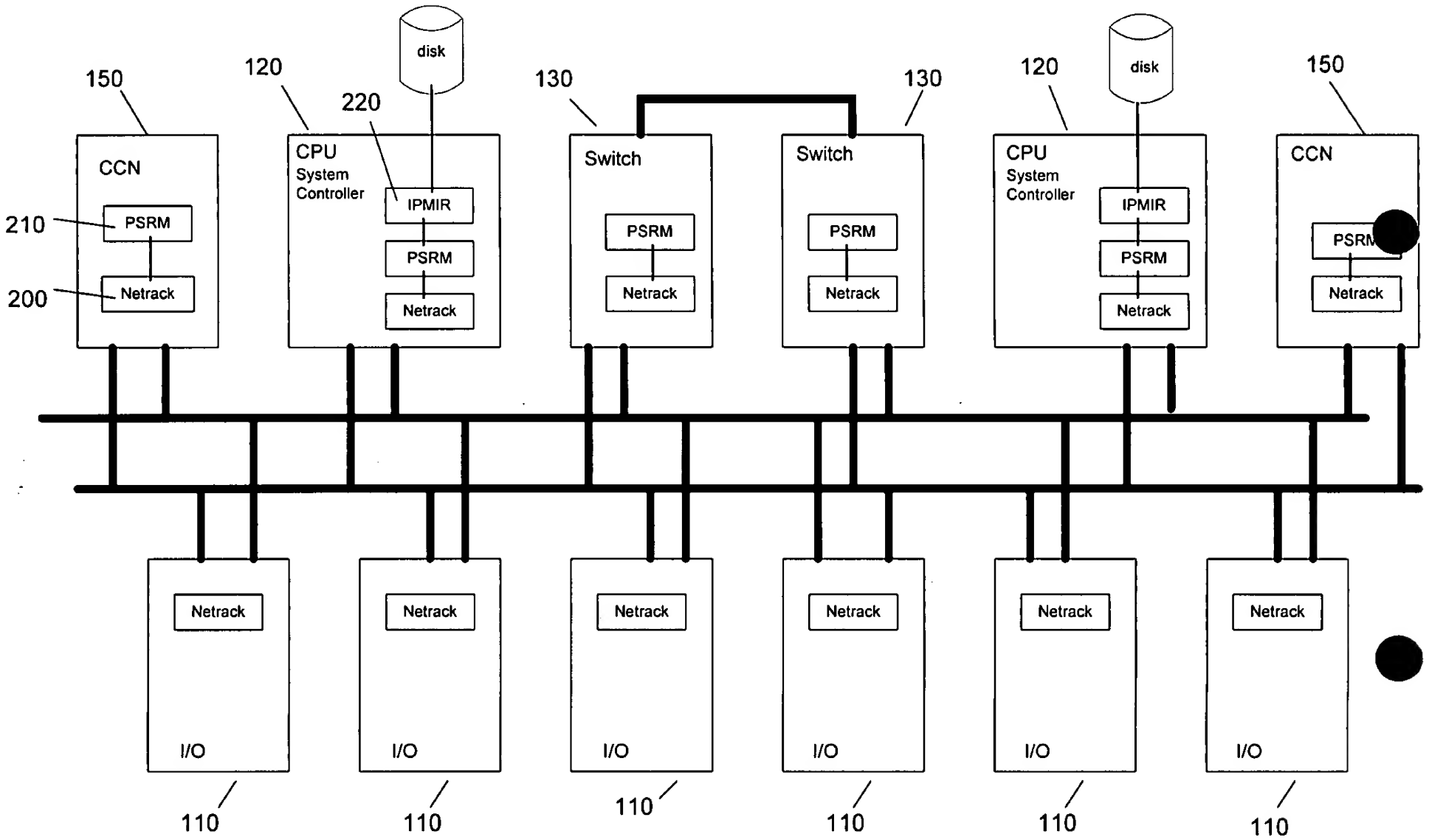

150
120
220
130
130
120
150
disk
disk
CCN
CPU
System
Controller
Switch
Switch
CPU
System
Controller
CCN
IPMIR
PSRM
Netrack
210
200
I/O
110

Fig. 7

007707 "6588960

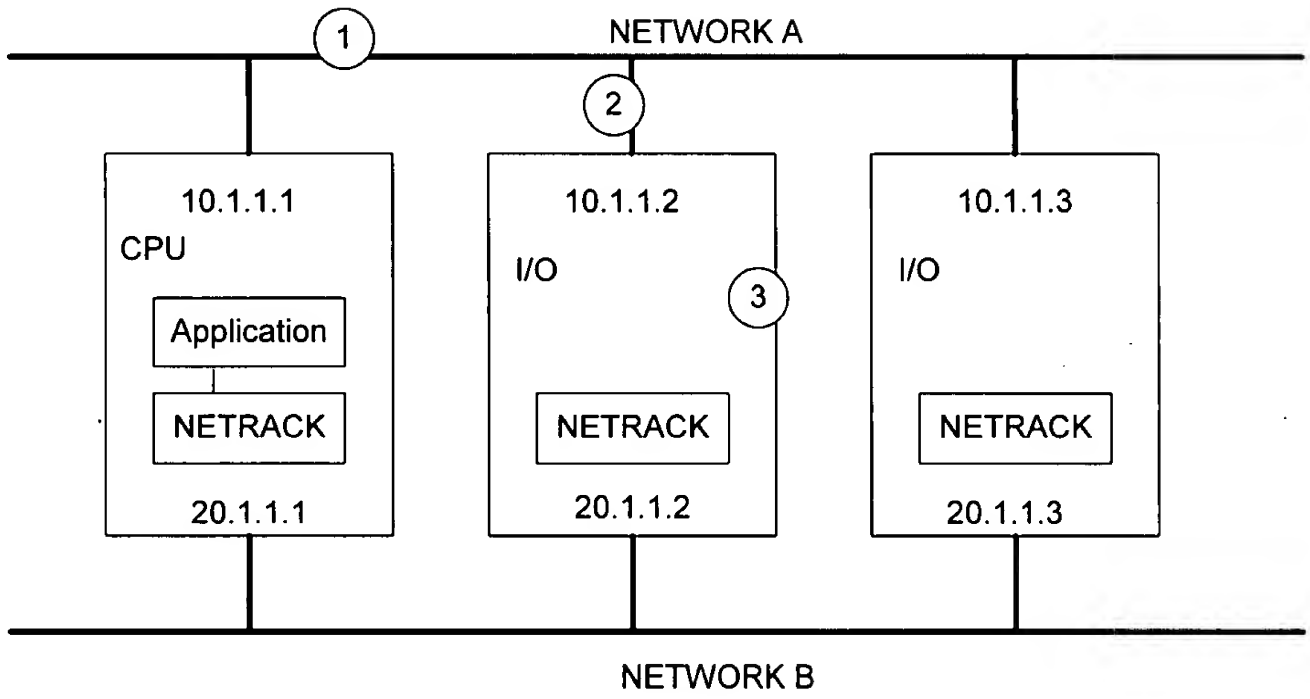
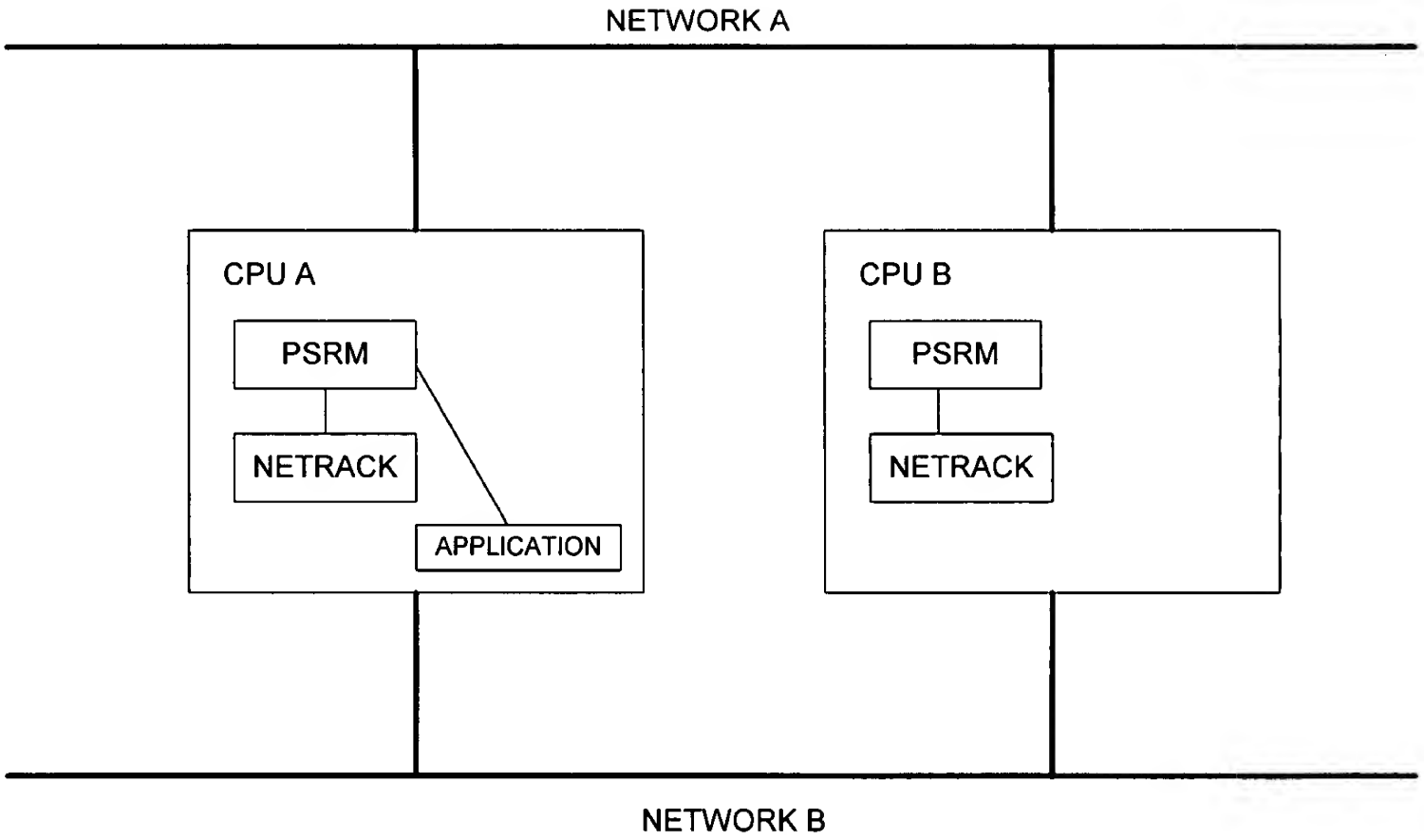


Fig. 8

Fig. 9


NETWORK A
CPU A
PSRM
NETRACK
APPLICATION
CPU B
PSRM
NETRACK
NETWORK B

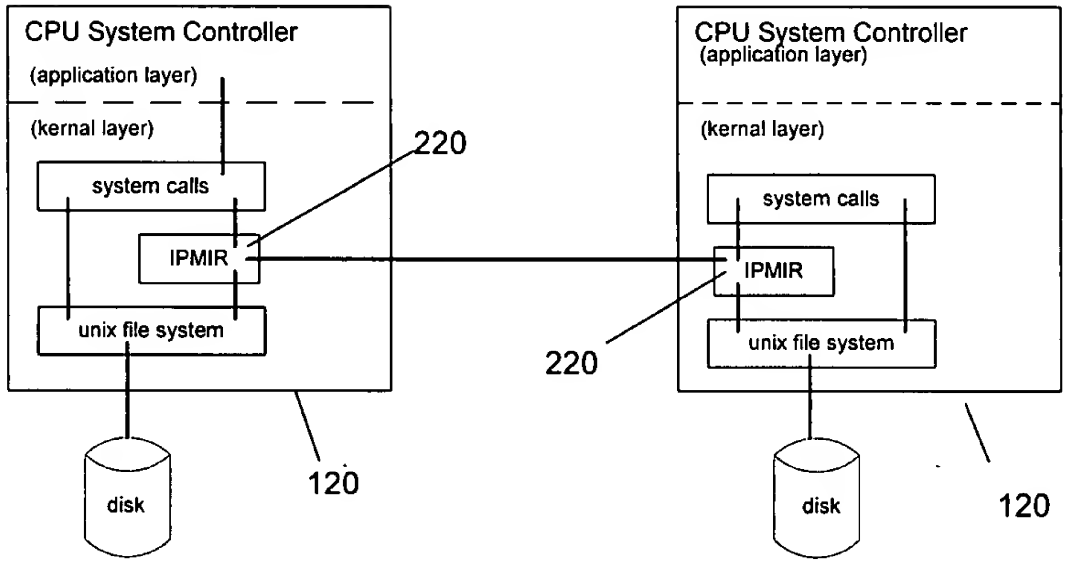

CPU System Controller
(application layer)
(kernal layer)
system calls
IPMIR
unix file system
disk
220
120
CPU System Controller
(application layer)
(kernal layer)
system calls
IPMIR
unix file system
disk
220
120

Fig. 10

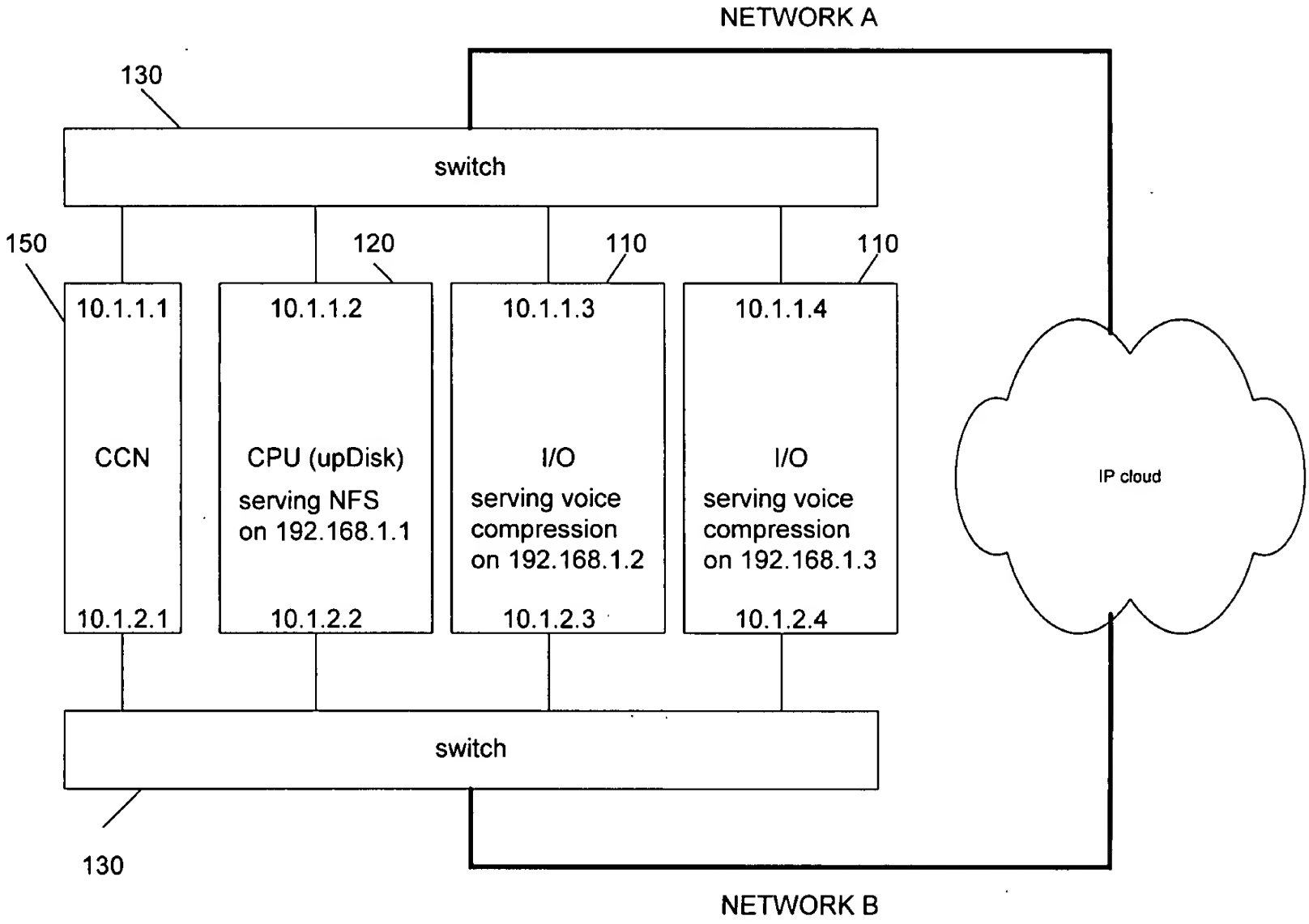
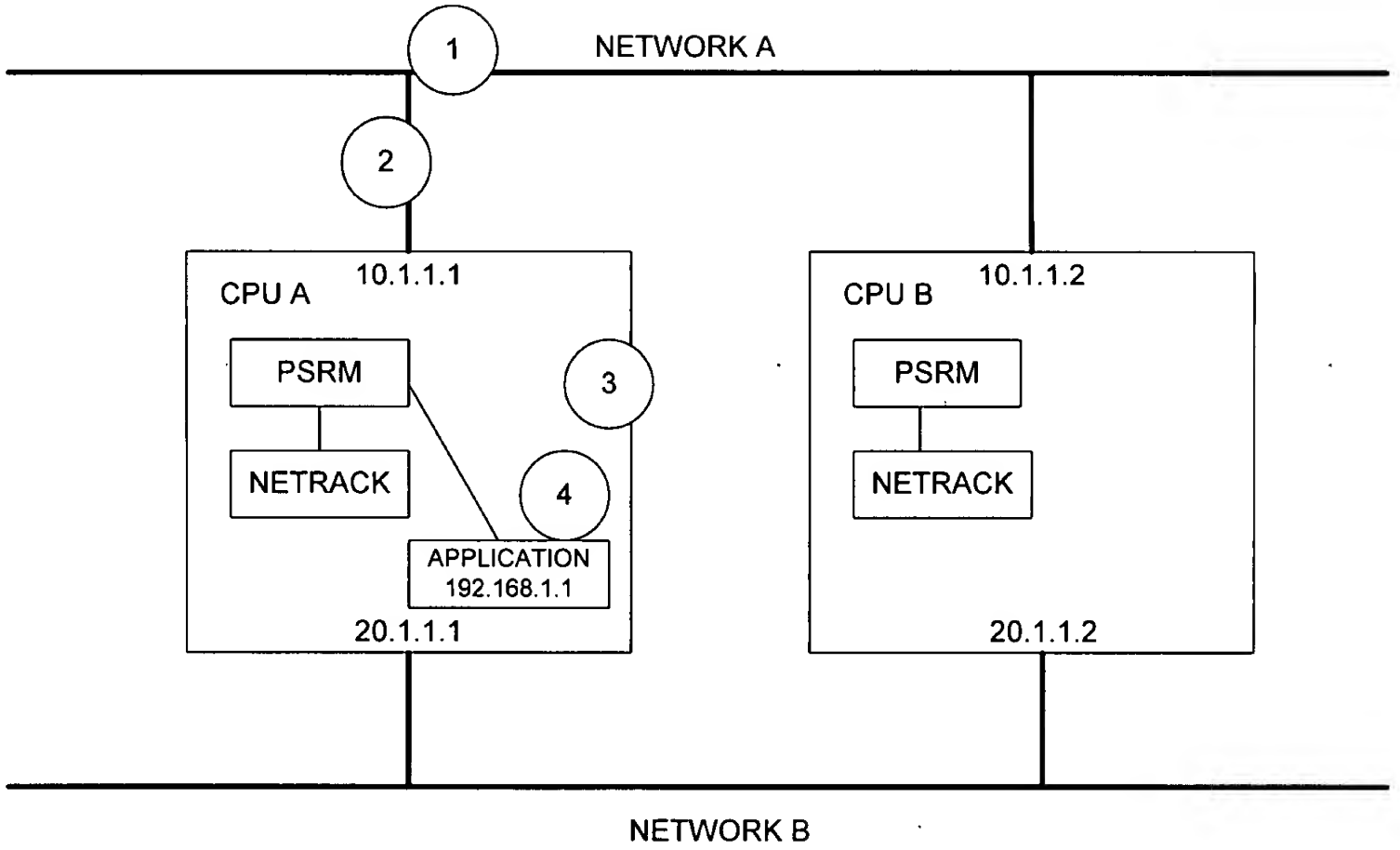

NETWORK A
130
switch
150
120
110
110
10.1.1.1
10.1.1.2
10.1.1.3
10.1.1.4
CCN
CPU (upDisk)
serving NFS
on 192.168.1.1
I/O
serving voice
compression
on 192.168.1.2
I/O
serving voice
compression
on 192.168.1.3
IP cloud
10.1.2.1
10.1.2.2
10.1.2.3
10.1.2.4
switch
130
NETWORK B

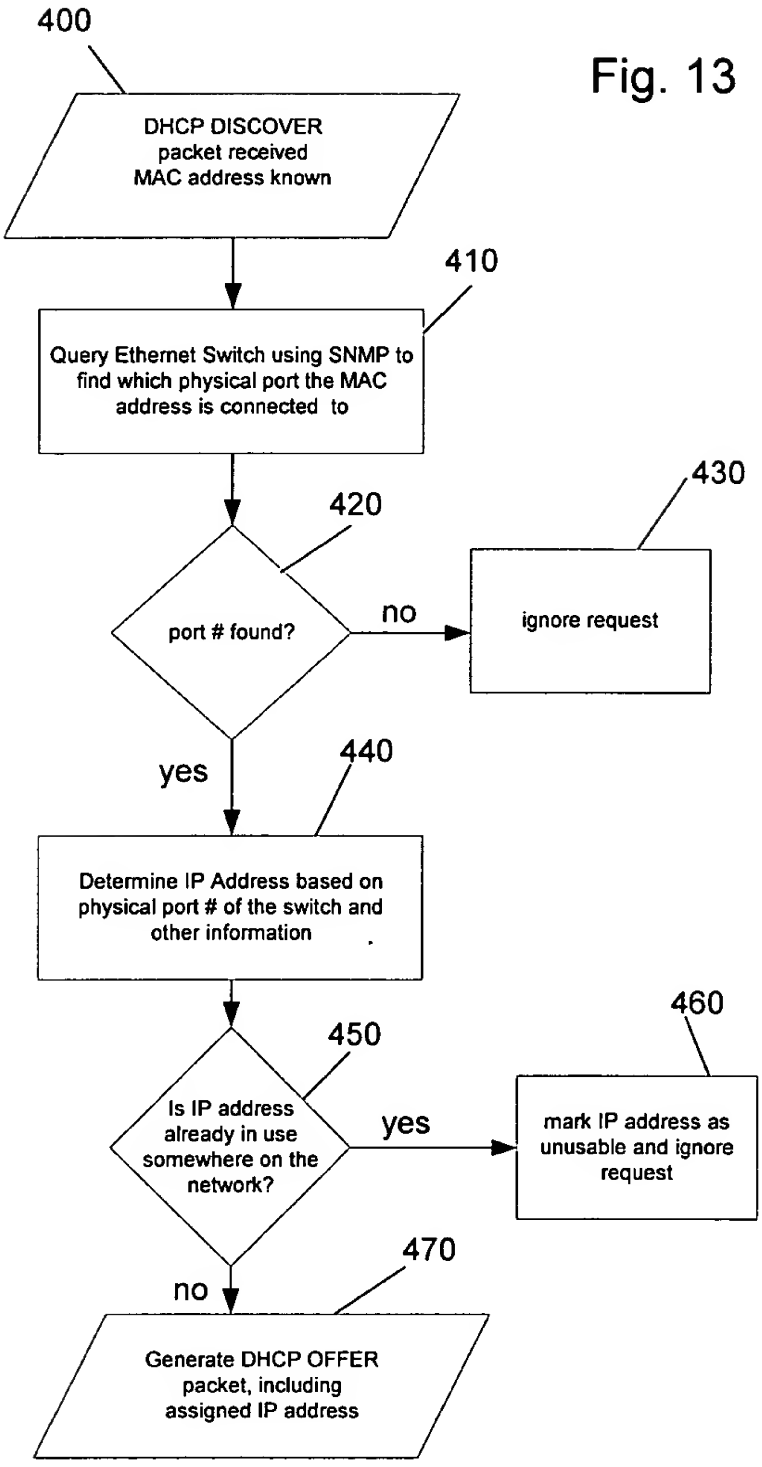
Fig. 11

Fig. 12


1
NETWORK A
2
CPU A
10.1.1.1
PSRM
3
NETRACK
4
APPLICATION
192.168.1.1
20.1.1.1
CPU B
10.1.1.2
PSRM
NETRACK
20.1.1.2
NETWORK B

0027074.0558650

Fig. 13



DOCKET ALARM

Fig. 14

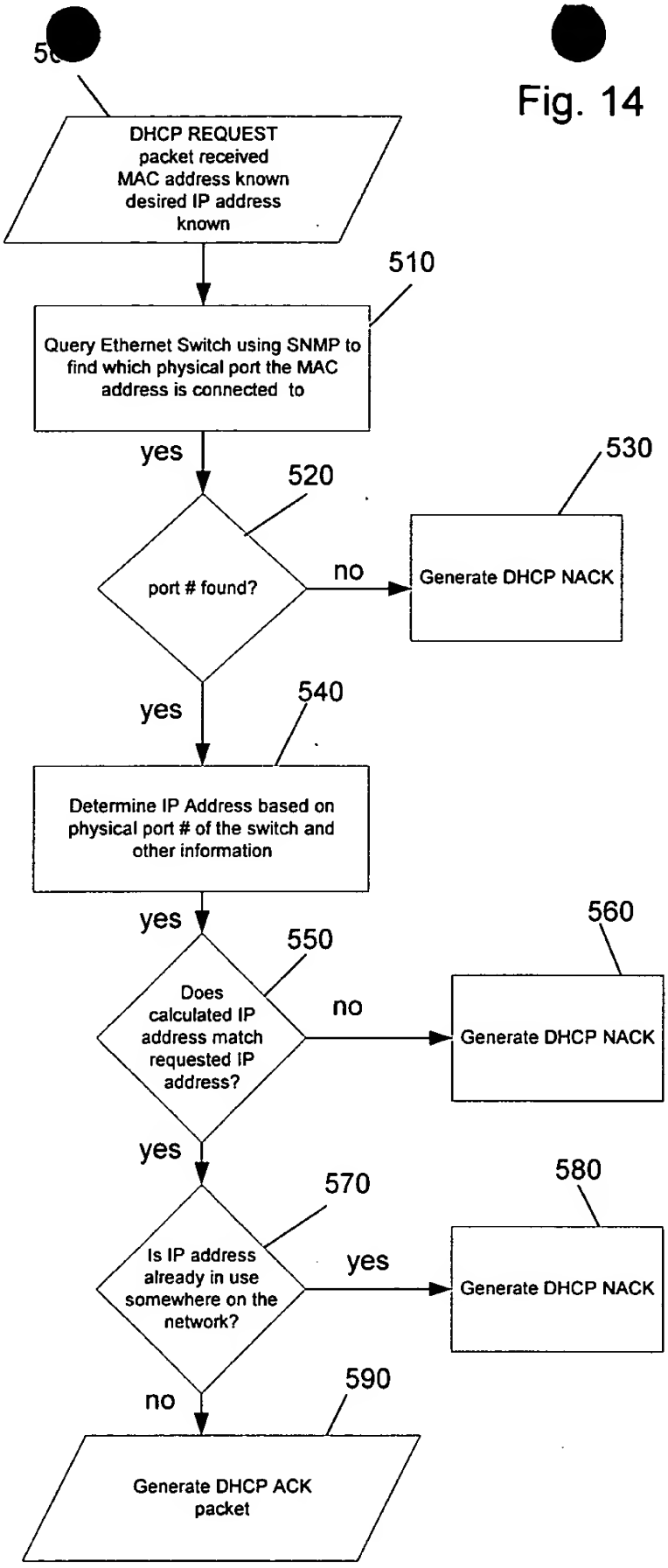
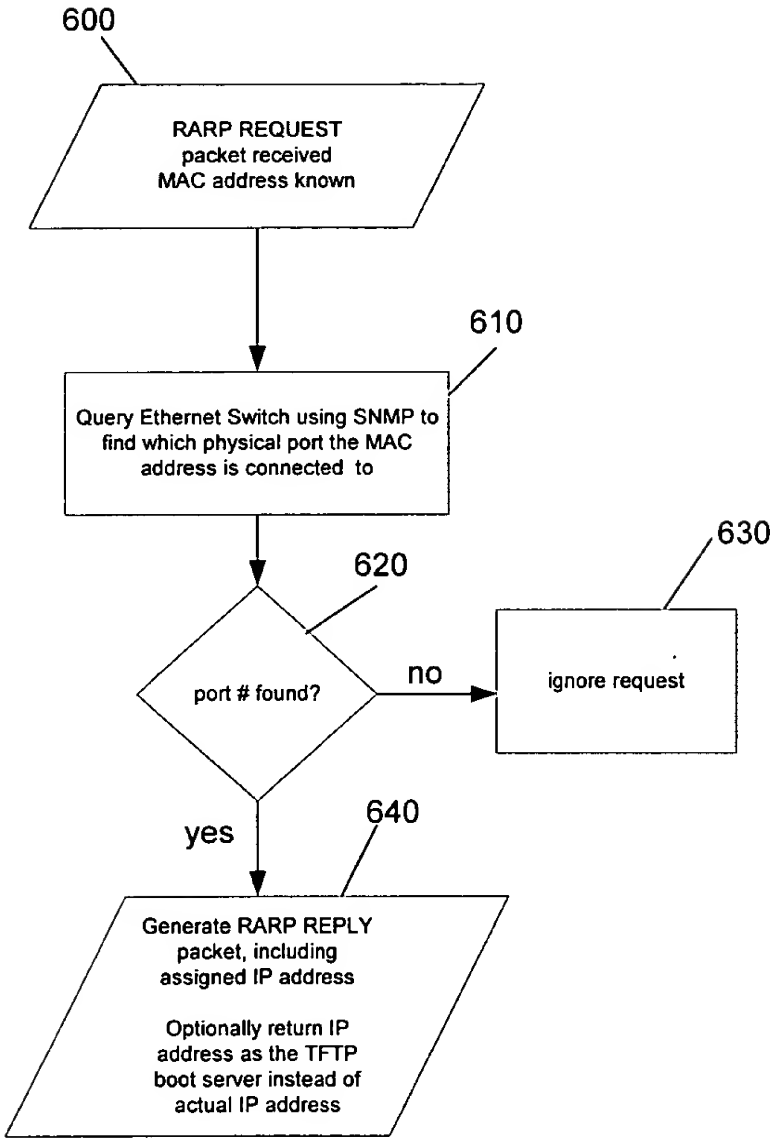


Fig. 15


600
RARP REQUEST
packet received
MAC address known
610
Query Ethernet Switch using SNMP to find which physical port the MAC address is connected to
620
port # found?
no
630
ignore request
yes
640
Generate RARP REPLY packet, including assigned IP address
Optionally return IP address as the TFTP boot server instead of actual IP address

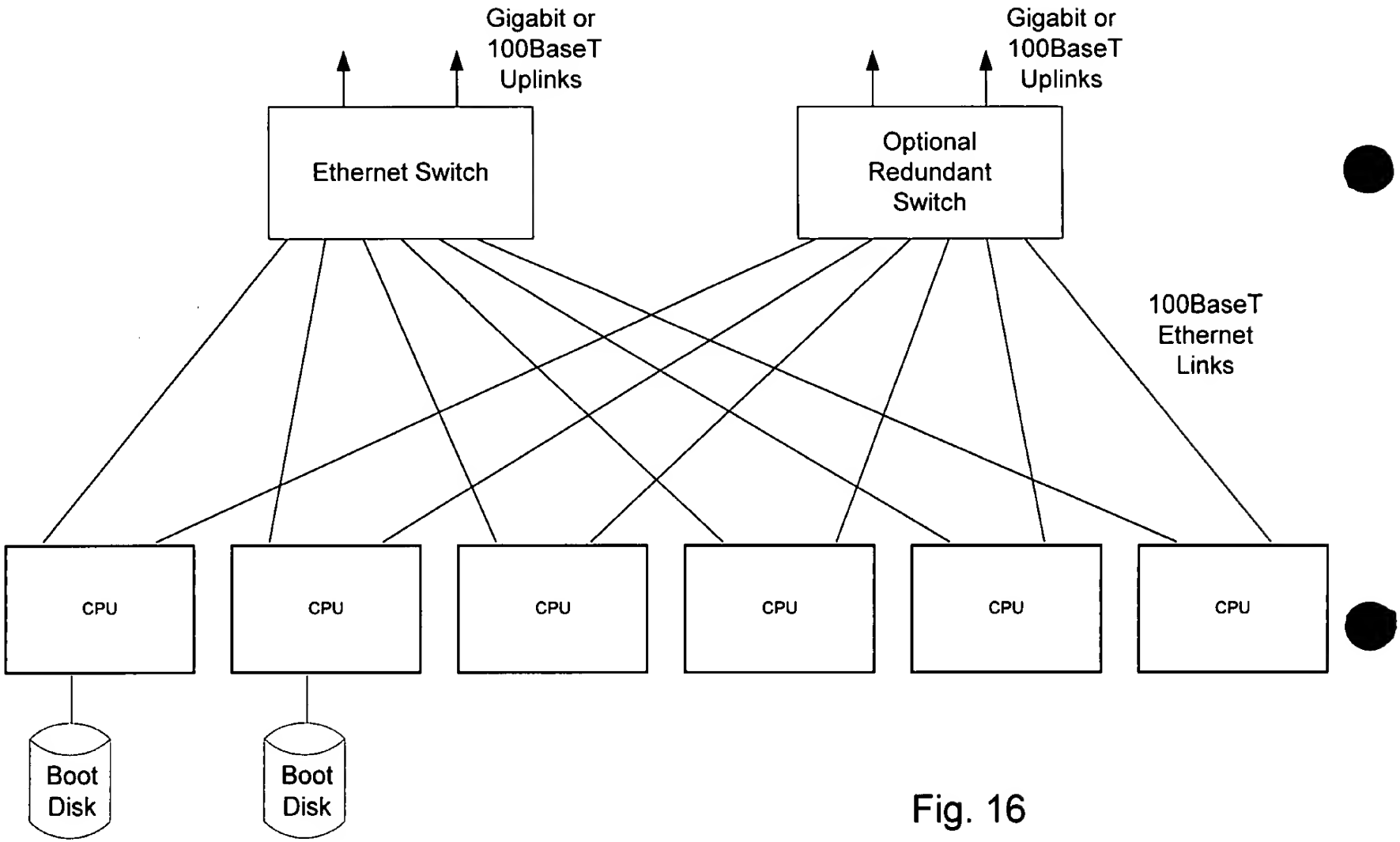

Gigabit or
100BaseT
Uplinks
Gigabit or
100BaseT
Uplinks
Ethernet Switch
Optional
Redundant
Switch
100BaseT
Ethernet
Links
CPU
CPU
CPU
CPU
CPU
CPU
Boot
Disk
Boot
Disk

Fig. 16

Fig. 17

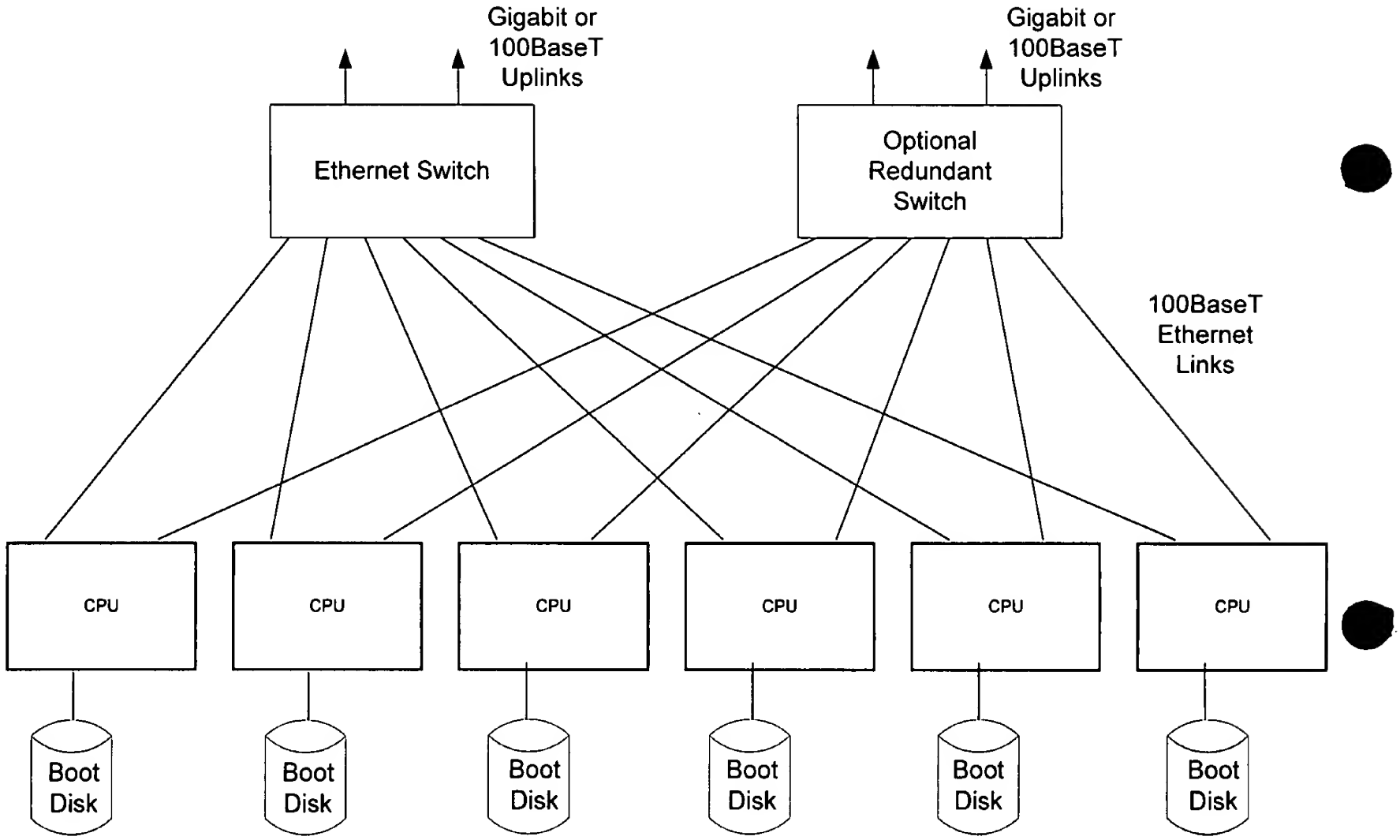
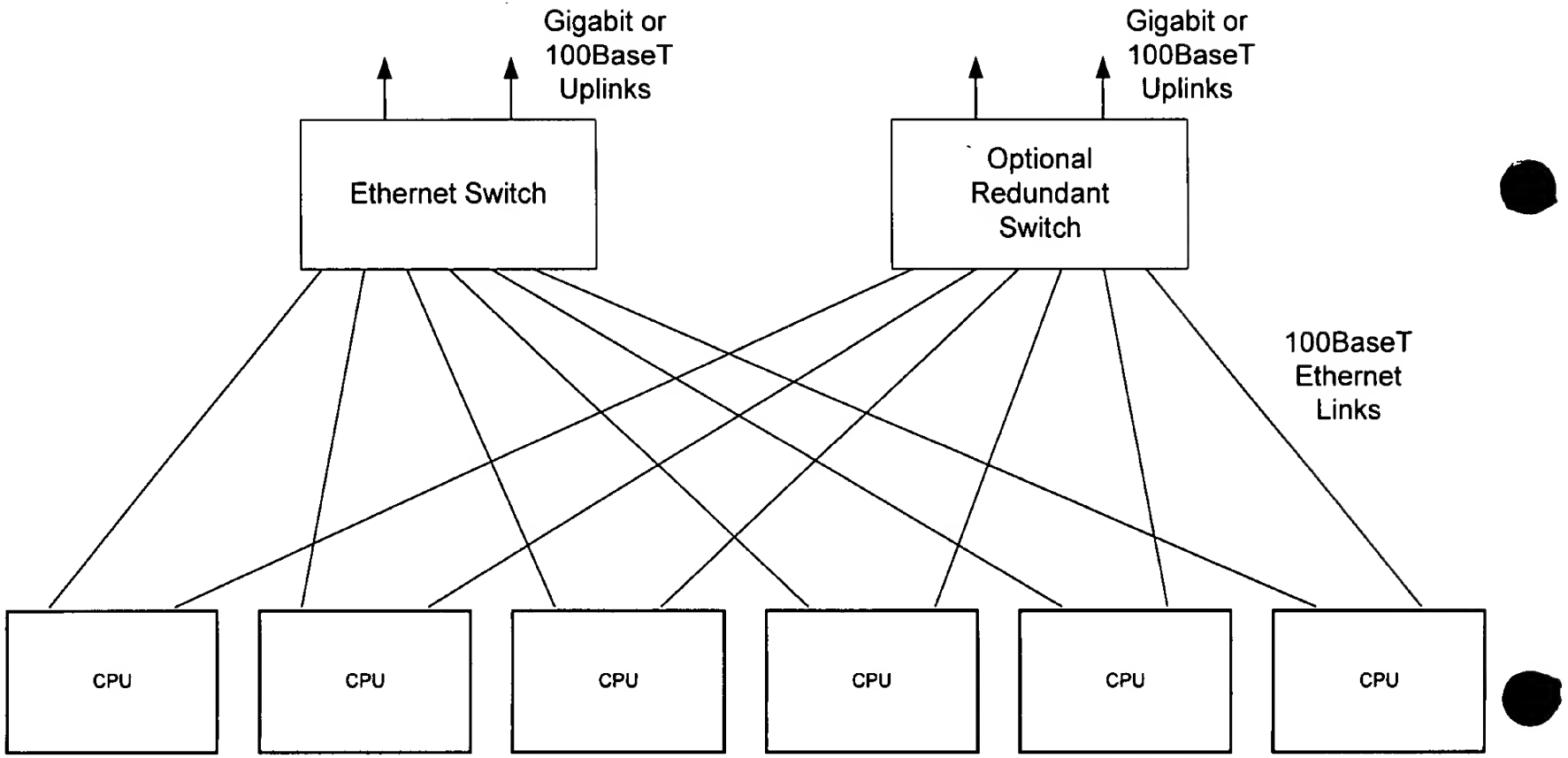

Gigabit or
100BaseT
Uplinks
Gigabit or
100BaseT
Uplinks
Ethernet Switch
Optional
Redundant
Switch
100BaseT
Ethernet
Links
CPU
CPU
CPU
CPU
CPU
CPU
Boot
Disk
Boot
Disk
Boot
Disk
Boot
Disk
Boot
Disk
Boot
Disk

Fig. 18


Gigabit or
100BaseT
Uplinks
Gigabit or
100BaseT
Uplinks
Ethernet Switch
Optional
Redundant
Switch
100BaseT
Ethernet
Links
CPU
CPU
CPU
CPU
CPU
CPU